

Office of Environmental Services
Industrial Pretreatment
Permitting Policy and Process

January 2005

Part Two

TABLE OF CONTENTS

Part One

	<u>SECTION</u>	<u>PAGE</u>
I.	INTRODUCTION	
A)	MEMORANDUM DESCRIBING THE CITY OF INDIANAPOLIS' INDUSTRIAL PRETREATMENT PERMITTING POLICY AND PROCESS	1
B)	INDUSTRIAL PRETREATMENT PERMITTING PROCESS DECISION-MAKING FACTORS AND CRITERIA	4
C)	INDUSTRIAL PRETREATMENT PERMITTING PROCESS FLOWCHART	6
D)	WEB PAGE POSTING	7
II.	FALL CREEK	
A)	USE ATTAINABILITY ANALYSES	8
B)	REPORTED AND OBSERVED USES, FIGURE 2-96	11
III.	PLEASANT RUN	
A)	USE ATTAINABILITY ANALYSES	12
B)	REPORTED AND OBSERVED USES, FIGURE 2-97	17
IV.	POGUES RUN	
A)	USE ATTAINABILITY ANALYSES	18
B)	REPORTED AND OBSERVED USES, FIGURE 2-98	21

Part Two

	<u>SECTION</u>	<u>PAGE</u>
V.	EAGLE CREEK	
A)	USE ATTAINABILITY ANALYSES	22
B)	REPORTED AND OBSERVED USES, FIGURE 2-99	24
VI.	WHITE RIVER	
A)	USE ATTAINABILITY ANALYSES	25
B)	REPORTED AND OBSERVED USES, FIGURE 2-100a	28
C)	REPORTED AND OBSERVED USES, FIGURE 2-100b	29
D)	REPORTED AND OBSERVED USES, FIGURE 2-100c	30
E)	REPORTED AND OBSERVED USES, FIGURE 2-100d	31
F)	DOWSTREAM OF MARION COUNTY REPORTED AND OBSERVED USES, FIGURE 2-101	32

INDIANAPOLIS CSO LONG-TERM CONTROL PLAN

Use Attainability Analysis

Description of Marion County Streams

Criteria	Big Eagle Creek CSOs					Little Eagle Creek CSOs			
	⁴ Washington St.	223 Victoria St. and Warman Ave.	⁴ McCarty St.	032 Morris St. and Warman Ave.	⁴ Bedford Ave. and Howard St.	011 Minnesota St. and Pershing Ave.	145 Raymond St. and Kentucky Ave.	⁴ Washington St.	033 Vermont St. and Somerset Ave.
Overflows per year (average) ¹		26		<1		17	<1		34
Annual Overflow Volume Range (MG/year) ¹		39-53		<1		6-8	<1		12-16
Other Discharges									
Location	downstream of bridge								
Type									
Factors that support/encourage recreational use									
School	no	no	no	no	no	no	no	no	no
Park	no	no	no	no	no	no	no	no	no
Trail	no	no	no	no	no	no	no	no	no
Other			open area by RR bridge						
Factors that prohibit/discourage recreational use									
Warning Signs/City Ordinance ²	N/A	could not locate	N/A	yes	N/A	yes	could not locate	N/A	could not locate
Fence	no	wall	no	no	no	no	no	walls	no
Steep Banks	no	no	no	no	no	no	gradual	yes	no
Other	dense vegetation and rocky banks downstream	heavy woods				vegetation	vegetation	dense vegetation	vegetation
Access									
North/East Bank	Moderately Difficult	Extremely Difficult	Extremely Difficult	Easy	Extremely Difficult	Easy	Extremely Difficult	Extremely Difficult	Extremely Difficult
South/West Bank	Extremely Difficult	Extremely Difficult	Easy	Easy	Extremely Difficult	Easy	Extremely Difficult	Extremely Difficult	Extremely Difficult
Stream's Physical Attributes									
Depth	1 ft.	6 inch - 1 ft.	1 ft. **	1 ft.	6 inch - 1 ft.	6 inches	6 inch - 1 ft.	1 ft.	1 ft.
Velocity	slow	slow	slow	slow	slow	slow	slow	slow	slow
Width	20 ft.	25 - 30 ft.	20 ft.	20 ft.	20 ft.	20 ft.	25 - 30 ft.	20 - 25 ft.	20 - 25 ft.
Substrate	sandy upstream, rocky downstream	rocks	some rocks, sand	some rocks, sand	some rocks	some rocks, sand	sandy, rock	rocky	some rocks, sand
Safety	no	no	no	yes	OK	yes	OK	no	OK upstream, no downstream
Land Use									
Public	yes	no	no	yes	no	no	no	yes	yes
Residential/Wooded	no	yes	yes	yes	no	yes	no	no	yes
Industrial/Commercial	yes	no	no	no	yes	yes	yes	yes	no
Stream Use									
Habitat for Aquatic Species									
Natural riparian	yes	yes	yes	yes	yes	yes	yes	yes, downstream	yes
Partially Developed (Subdivision)									
Fully Urbanized Development		yes						yes, upstream	

- Notes:
- Overflows per year and volume range were revised June 2004.
 - New bilingual warning signs are being placed at all CSO locations.
 - The data for this CSO was collected in June 2004.
 - Pictures not taken by CSO, additional river pictures.

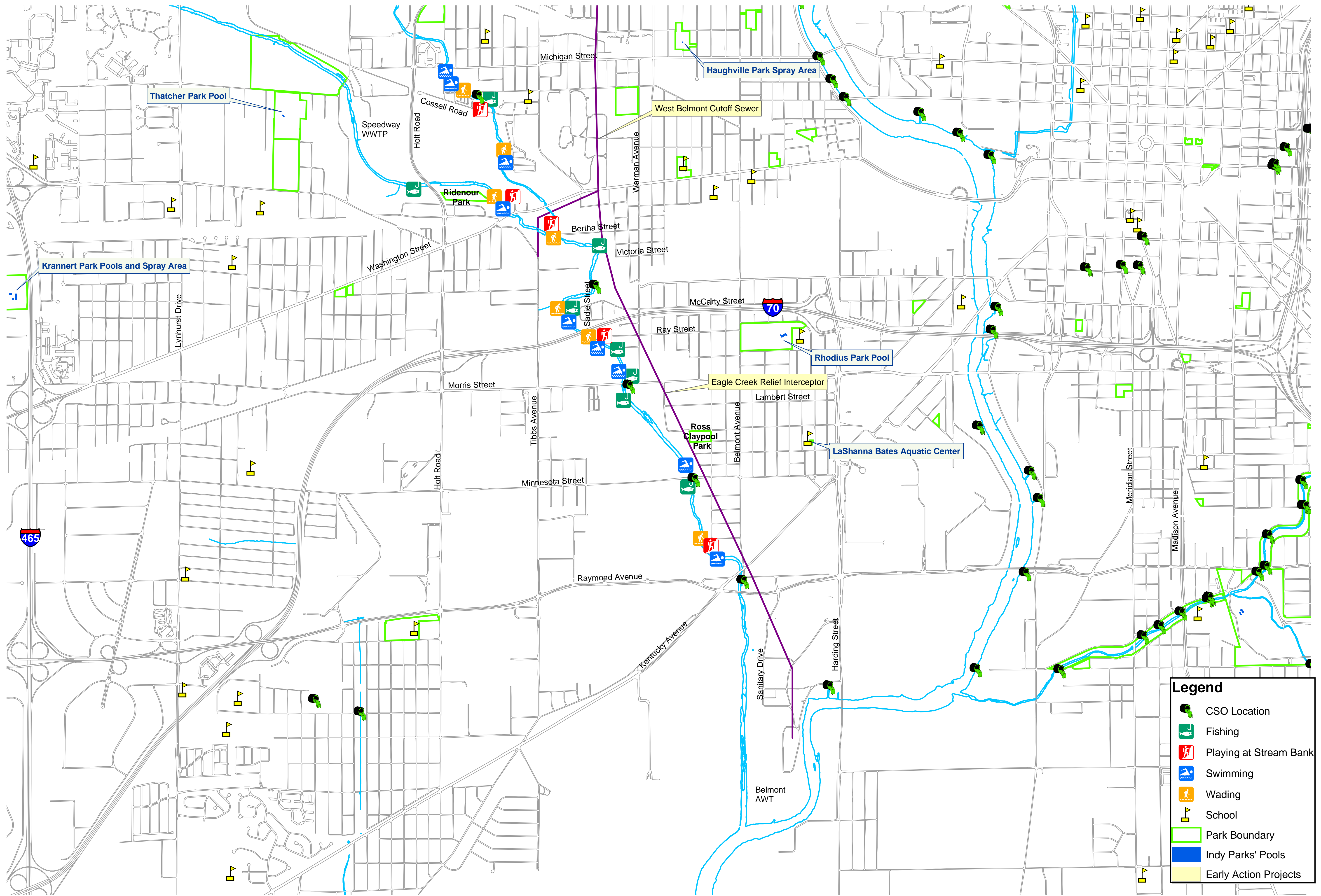
INDIANAPOLIS CSO LONG-TERM CONTROL PLAN

Use Attainability Analysis

Description of Marion County Streams

Criteria	Lick Creek CSOs				State Ditch CSOs				
	235	4	4	4	217	218	4	4	4
	Shelby St. and Markwood Ave.	Meridian St.	Bluff Rd.	Harding St.	Gadsden St. and Lyons Ave.	Gadsden St. and Fleming St.	Troy Ave.	Moorestown Rd.	Superior Rd.
Overflows per year (average) ¹	47				5	53			
Annual Overflow Volume Range (MG/year) ¹	11-15				<1	34-46			
Other Discharges	yes								
Location									
Type									
Factors that support/encourage recreational use									
School	no	no	no	no	no	no	no	no	no
Park	Mobile Home	no	no	no	no	no	no	no	no
Trail	yes, in woods	no	no	no	no	no	no	no	no
Other								backyard up against creek bank	
Factors that prohibit/discourage recreational use									
Warning Signs/City Ordinance ²	yes	N/A	N/A	N/A	yes	yes	N/A	N/A	N/A
Fence	no	no	yes, on northwest side	yes, on southwest side	no	no	no	no	no
Steep Banks	gradual, concrete	no	no	no	no	no	no	no	no
Other		dense vegetation	dense vegetation	dense vegetation on northwest side	vegetation	vegetation	vegetation		vegetation
Access									
North/East Bank	Easy	Extremely Difficult	Extremely Difficult	Extremely Difficult	Moderately Difficult	Moderately Difficult	Moderately Difficult	Extremely Difficult	Extremely Difficult
South/West Bank	Easy	Extremely Difficult	Extremely Difficult	Extremely Difficult	Moderately Difficult	Moderately Difficult	Extremely Difficult	Extremely Difficult	Extremely Difficult
Stream's Physical Attributes									
Depth	6 inches	6 inches	6 inches	6 inches	2 - 6 inch.	2 - 6 inch.	2 - 6 inch.	2 - 6 inch.	2 - 6 inch.
Velocity	slow	slow	slow	slow	slow	slow	slow	slow	slow
Width	10 - 15 ft.	10 - 15 ft.	10 - 15 ft.	10 - 15 ft.	5 ft.	5 ft.	5 ft.	5 ft.	5 ft.
Substrate	rocky	rocky	sandy	sandy	rocks and trash	rocks and trash	rocks	rocks	rocks
Safety	no	no	OK	OK	no	no	no	no	no
Land Use									
Public	no	no	no	no	no	no	no	yes	no
Residential/Wooded	yes	yes	yes	yes	yes	yes	yes	yes	yes
Industrial/Commercial	no	yes	yes	yes	no	no	no	no	no
Stream Use									
Habitat for Aquatic Species									
Natural riparian	yes	yes	yes	yes	yes	yes	yes	yes	yes
Partially Developed (Subdivision)	yes								
Fully Urbanized Development									

- Notes:
- 1. Overflows per year and volume range were revised June 2004.
 - 2. New bilingual warning signs are being placed at all CSO locations.
 - 3. The data for this CSO was collected in June 2004.
 - 4. Pictures not taken by CSO, additional river pictures.



Eagle Creek Figure 2-99
Reported and Observed Uses

INDIANAPOLIS CSO LONG-TERM CONTROL PLAN

Use Attainability Analysis

Description of Marion County Streams

White River

Criteria	⁴	⁴	156	155 ³	205	⁴	⁴	⁴	⁴	⁴	046 ³
	North of Holiday Park	North of Kessler St. Bridge	Kenwood Ave. and Westfield Blvd.	Pennsylvania St. and 54th St.	Boulevard Pl. and Westfield Blvd.	Near Riviera Club	South of 52nd St.	North of Butler University	North of Christian Theological Seminary	North of Michigan Rd.	Lafayette Rd. and 19th St.
Overflows per year (average) ¹			Eliminated (August 2002)	30	42						6
Annual Overflow Volume Range (MG/year) ¹				48-65	16-22						<1
Other Discharges											
Location											
Type											
Factors that support/encourage recreational use											
School	no	no	no	no	no	no	no	no	no	no	no
Park	yes	no	no	Riviera Club	no	Riviera Club	no	no	no	no	yes
Trail	yes, to river bank	yes, along east bank	along side CSO	no	no	no	trails along west bank	no	yes, along east bank	no	no
Other					backyard			several backyards run up to river bank			
Factors that prohibit/discourage recreational use											
Warning Signs/City Ordinance ²	N/A	N/A	could not see from river	yes	could not see from river	N/A	N/A	N/A	N/A	N/A	yes
Fence	no	no	no	no	no	no	no	no	no	no	yes
Steep Banks	no	yes	yes, on west bank	yes	yes, on west bank	no	no	no	no	no	yes
Other	some woods	heavily wooded	wooded on both banks	wooded on both banks	rocky bank	heavily wooded on west bank	rocky east bank	heavily wooded on west bank	heavily wooded on west bank	rocky and heavily wooded banks	heavily wooded banks
Access											
West Bank	Moderately Difficult	Extremely Difficult		Moderately Difficult			Extremely Difficult	Extremely Difficult	Extremely Difficult		Extremely Difficult
East Bank		Moderately Difficult	Extremely Difficult	Extremely Difficult	Extremely Difficult	Moderately Difficult		Moderately Difficult	Moderately Difficult	Extremely Difficult	Extremely Difficult
Stream's Physical Attributes											
Depth	~ 1 - 1.5 ft.	~ 1 - 1.5 ft.	~ 3 -4 ft.	> 10 ft.	~ 3 -4 ft.	~ 7 ft.	~ 1 ft.	~ 1.5 ft.	~ 2 -3 ft.	~ 2 -3 ft.	
Velocity	slow	slow	slow	moderate - quick	slow	slow	slow	slow	slow	slow	quick
Width	~ 50 - 60 ft.	~ 50 - 60 ft.	~ 50 ft.	~ 80 ft.	~ 50 ft.	~ 50 - 60 ft.	~ 50 ft.	~ 50 ft.	~ 50 ft.	~ 50 ft.	~ 90 ft.
Substrate	rocky	rocky	some rocks, sandy	sand, cobble	some rocks, sandy	could not distinguish	rocky	sandy	could not distinguish	rocky	sandy
Safety	no	no	no	no	no	no	no	OK	OK	no	no
Land Use											
Public	yes	no	no	no	no	yes	no	no	yes	yes	yes
Residential/Wooded	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	no
Industrial/Commercial	no	no	no	no	no	no	no	no	no	no	no
Stream Use											
Habitat for Aquatic Species											
Natural riparian	yes	yes	yes		yes	yes	yes	yes	yes	yes	
Partially Developed (Subdivision)											
Fully Urbanized Development				yes							yes
Other Comments	area evaluated from kayak	area evaluated from kayak				area evaluated from kayak	area evaluated from kayak	area evaluated from kayak	area evaluated from kayak	area evaluated from kayak	accessible only by water

Notes:

- 1. Overflows per year and volume range were revised June 2004.
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- 3. The data for this CSO was collected in June 2004.
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INDIANAPOLIS CSO LONG-TERM CONTROL PLAN

Use Attainability Analysis

Description of Marion County Streams

White River

Criteria	045 ³	044	043	042 ³	041	147	040	039	038	037	116
	WRPWD and Belmont Ave.	Waterway Blvd. And Riverside Dr.	Harding St. and Waterway Blvd.	Saint Clair St. and Lynn Ave.	WRPWD and Michigan St.	WRPWD and Vermont St.	New York St. and Koehne St.	New York St. and Beauty Ave.	New York St. and Agnes St.	Washington St. and Geisendorff St.	Meikel St. and Ray St.
Overflows per year (average) ¹	24	<1	46	40	26	13	13	39	31	16	40
Annual Overflow Volume Range (MG/year) ¹	19-26	<1	108-146	57-77	18-24	<1	2-3	111-151	7-9	13-17	39-53
Other Discharges											
Location								downstream	upstream		
Type								storm	storm		
Factors that support/encourage recreational use											
School	no	no	no	yes	no	no	no	yes, IUPUI	yes, IUPUI	yes, IUPUI	no
Park	no	no	no	yes	no	no	no	no	no	yes, zoo and White River Gardens	no
Trail	no	yes	yes	no	yes	yes	yes	yes	yes	yes	trails leading down to river
Other											
Factors that prohibit/discourage recreational use											
Warning Signs/City Ordinance ²	yes	yes	yes	could not locate	yes	could not locate	could not locate	yes	yes	yes	could not locate
Fence	no	no	no	no	no	no	no	no	no	no	no
Steep Banks	no	no	yes	no	concrete west bank	concrete west bank	concrete west bank	no	concrete wall on west side	no	yes
Other		concrete bank	dense vegetation	currently under construction				no		vegetation on west side	no
Access											
West Bank	Easy	Moderately Difficult	Moderately Difficult	Easy	Extremely Difficult	Moderately Difficult	Moderately Difficult	Extremely Difficult	Extremely Difficult	Extremely Difficult	Easy
East Bank	Easy	Moderately Difficult	Extremely Difficult	Easy	Easy	Easy	Easy	Easy	Easy	Easy	Extremely Difficult
Stream's Physical Attributes											
Depth	~ 2 - 3 ft.	~ 2 - 3 ft.	~ 2 - 3 ft.		~ 2 - 3 ft.	~ 2 - 3 ft.	~ 2 - 3 ft.	~ 2 - 3 ft.	~ 2 - 3 ft.	~ 2 - 3 ft.	~ 2 - 3 ft.
Velocity	none	slow	slow	quick	slow	slow	slow	slow	slow	slow	slow
Width	~ 20 ft.	~ 80 ft.	~ 80 ft.	~ 80'	~ 80 ft.	~ 80 ft.	~ 80 ft.	~ 80 ft.	~ 80 ft.	~ 80 ft.	~ 50-60 ft.
Substrate	mud	muddy by bank	muddy by bank	sandy	could not distinguish	could not distinguish	could not distinguish	could not distinguish	could not distinguish	could not distinguish	little rocks, sandy
Safety	OK	OK	OK	no	OK	OK	OK	OK	OK	OK	OK
Land Use											
Public	yes	yes	yes	no	no	no	no	no	no	no	yes
Residential/Wooded	no	no	no	no	no	no	no	no	no	no	no
Industrial/Commercial	no	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
Stream Use											
Habitat for Aquatic Species											
Natural riparian		yes	yes		yes, east side	yes, east side	yes, east side	yes, east side	yes, east side	yes, east side	yes
Partially Developed (Subdivision)											
Fully Urbanized Development	yes	yes, on west side		yes	yes, west side	yes, west side	yes, west side	yes, west side	yes, west side		
Other Comments	spills into side channel ~30 ft.			short side shoot							

Notes:

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INDIANAPOLIS CSO LONG-TERM CONTROL PLAN

Use Attainability Analysis

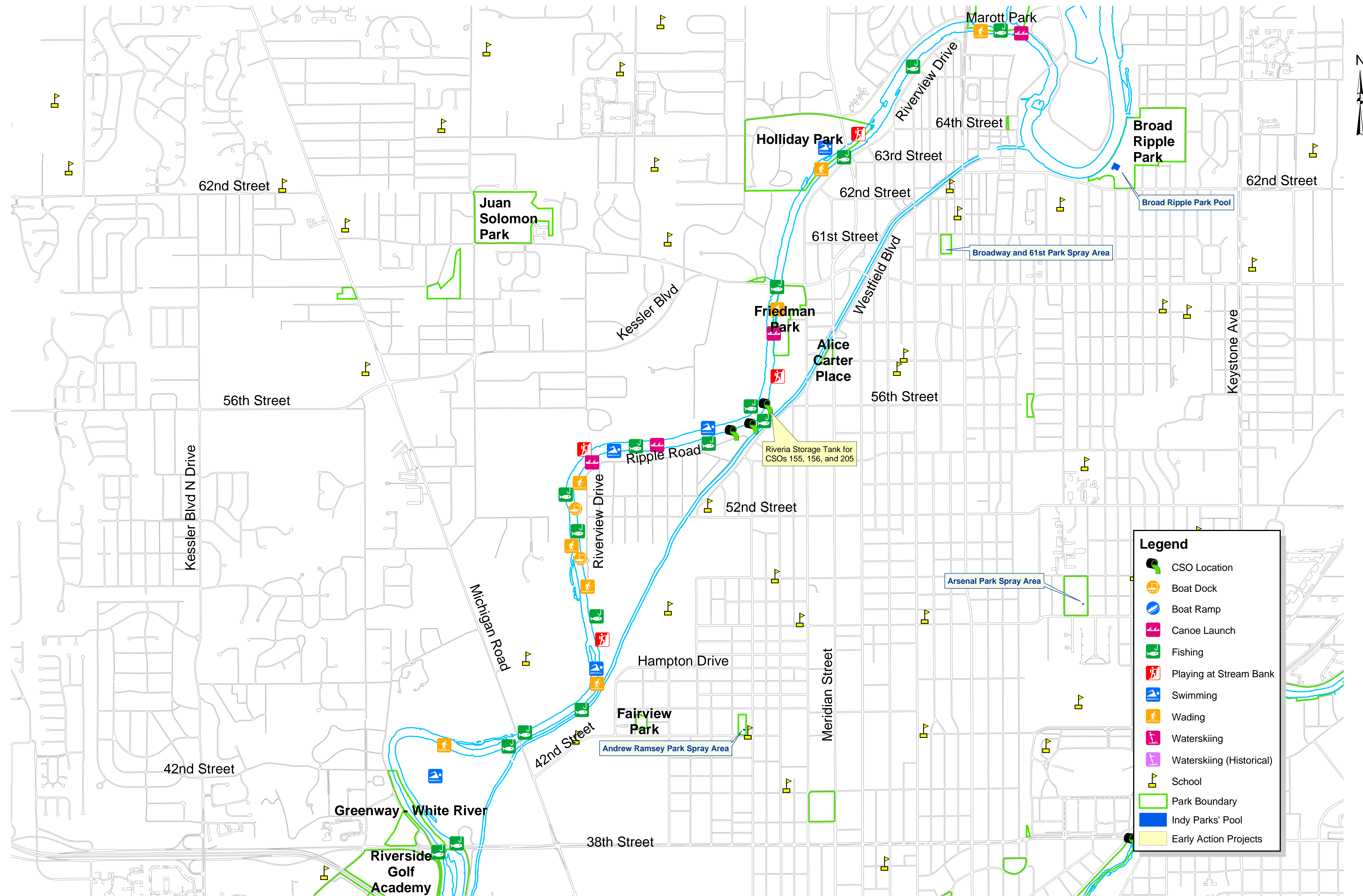
Description of Marion County Streams

White River

Criteria	014	118	013	012	117	008 ³	275 ³
	Kentucky Ave. and York St.	WRPED and West St.	Meridian St. and Adler St.	Raymond St. and West St.	Southern Ave. and White River	Belmont AWT	4945 S. Foltz
Overflows per year (average) ¹	Eliminated (May 2002)	51	21	34	67-70 ⁵	67-70 ⁵	3
Annual Overflow Volume Range (MG/year) ¹		461-623	21-29	8-11	978-1,323 ⁵	978-1,323 ⁵	2-3
Other Discharges							
Location	NW corner of bridge			Downstream, SW side			
Type	storm			submerged			
Factors that support/encourage recreational use							
School	no	no	no	no	no	no	no
Park	no	no	no	no	no	no	no
Trail	no	no	no	yes	road by lift stations	no	yes, east side
Other					stairs down to CSO		
Factors that prohibit/discourage recreational use							
Warning Signs/City Ordinance ²	could not locate	yes	yes	could not locate	yes	yes	could not locate
Fence	no	no	no	no	no	yes	no
Steep Banks	no	gradual, concrete	gradual, concrete	no	no	no	no
Other	dense vegetation	some vegetation	some vegetation	dense vegetation on south side	dense vegetation	dense vegetation	dense vegetation on west side
Access							
West Bank	Moderately Difficult	Moderately Difficult	Moderately Difficult	Extremely Difficult	Extremely Difficult	Moderately Difficult	Extremely Difficult
East Bank	Extremely Difficult	Extremely Difficult	Extremely Difficult	Easy	Extremely Difficult	Moderately Difficult	Easy
Stream's Physical Attributes							
Depth	2 - 3 ft.	2 - 3 ft.	2 - 3 ft.	2 - 3 ft.	~ 2 - 3 ft.	NA	variable
Velocity	slow	slow	slow	slow	slow	NA	moderate
Width	60 - 70 ft.	60 - 70 ft.	60 - 70 ft.	60 - 70 ft.	~ 50-60 ft.	NA	~ 65 ft.
Substrate	sandy	sandy	sandy	sandy	big rocks by bank	NA	cobble
Safety	OK	OK	OK	OK	no	NA	yes
Land Use							
Public	yes	no	no	yes	no	yes	no
Residential/Wooded	no	no	no	no	no	no	yes, west side
Industrial/Commercial	yes	yes	yes	yes	yes	no	yes, east side
Stream Use							
Habitat for Aquatic Species							
Natural riparian	yes	yes	yes	yes	yes		yes
Partially Developed (Subdivision)		yes, concrete banks	yes, concrete banks				
Fully Urbanized Development						yes	
Other Comments					behind National By-Products	discharges into side channel	

Notes:

1. Overflows per year and volume range were revised June 2004.
2. New bilingual warning signs are being placed at all CSO locations.
3. The data for this CSO was collected in June 2004.
4. Pictures not taken by CSO, additional river pictures.
5. CSO 117 and 008 statistics represent the cumulative statistics for CSOs 008 and 117. The individual overflow volume at CSOs 008 and 117 is dependant on the operation of the Southwest Diversion Structure operation. The cumulative overflow volume at b

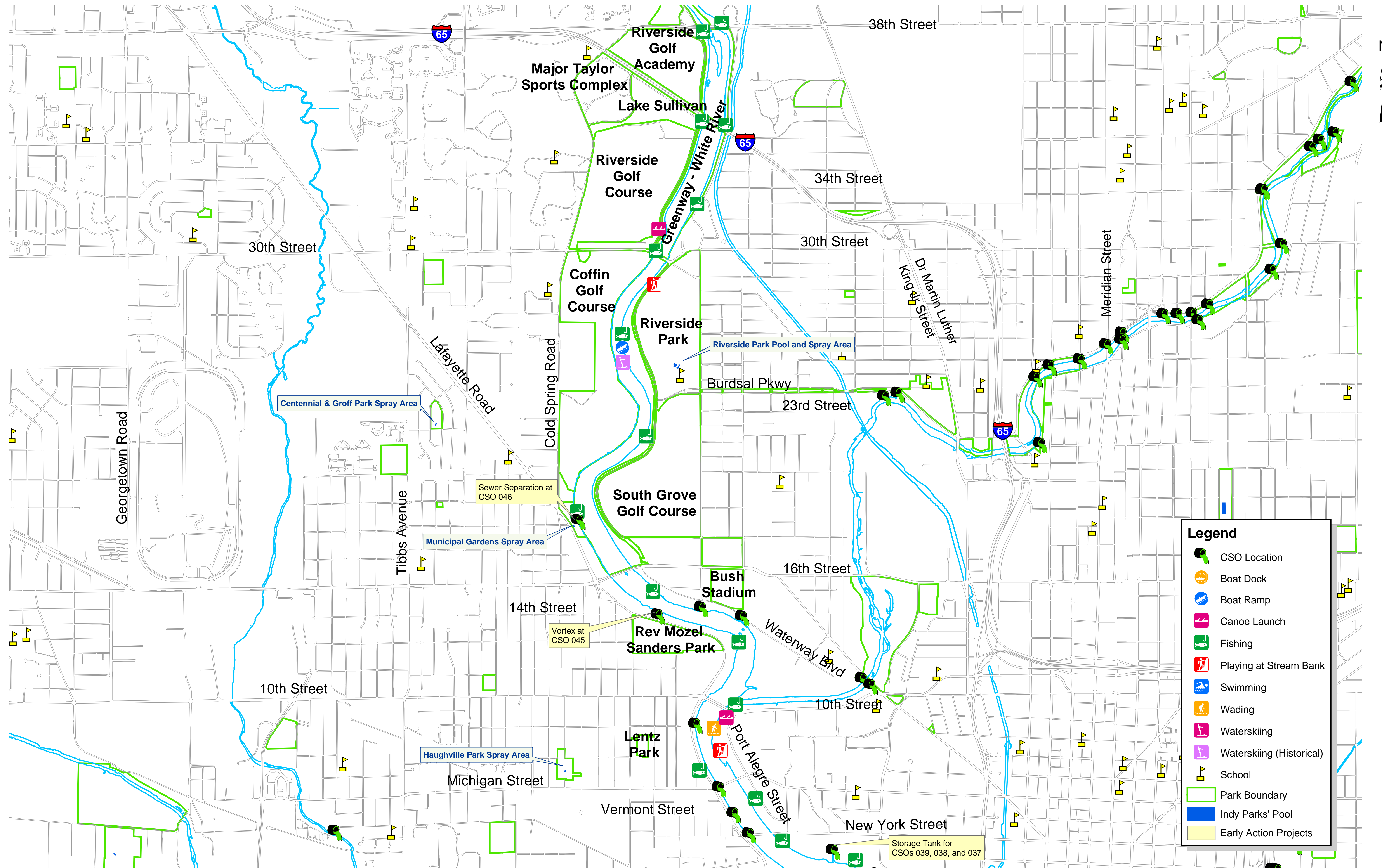


Legend

- CSO Location
- Boat Dock
- Boat Ramp
- Canoe Launch
- Fishing
- Playing at Stream Bank
- Swimming
- Wading
- Waterskiing
- Waterskiing (Historical)
- School
- Park Boundary
- Indy Parks' Pool
- Early Action Projects

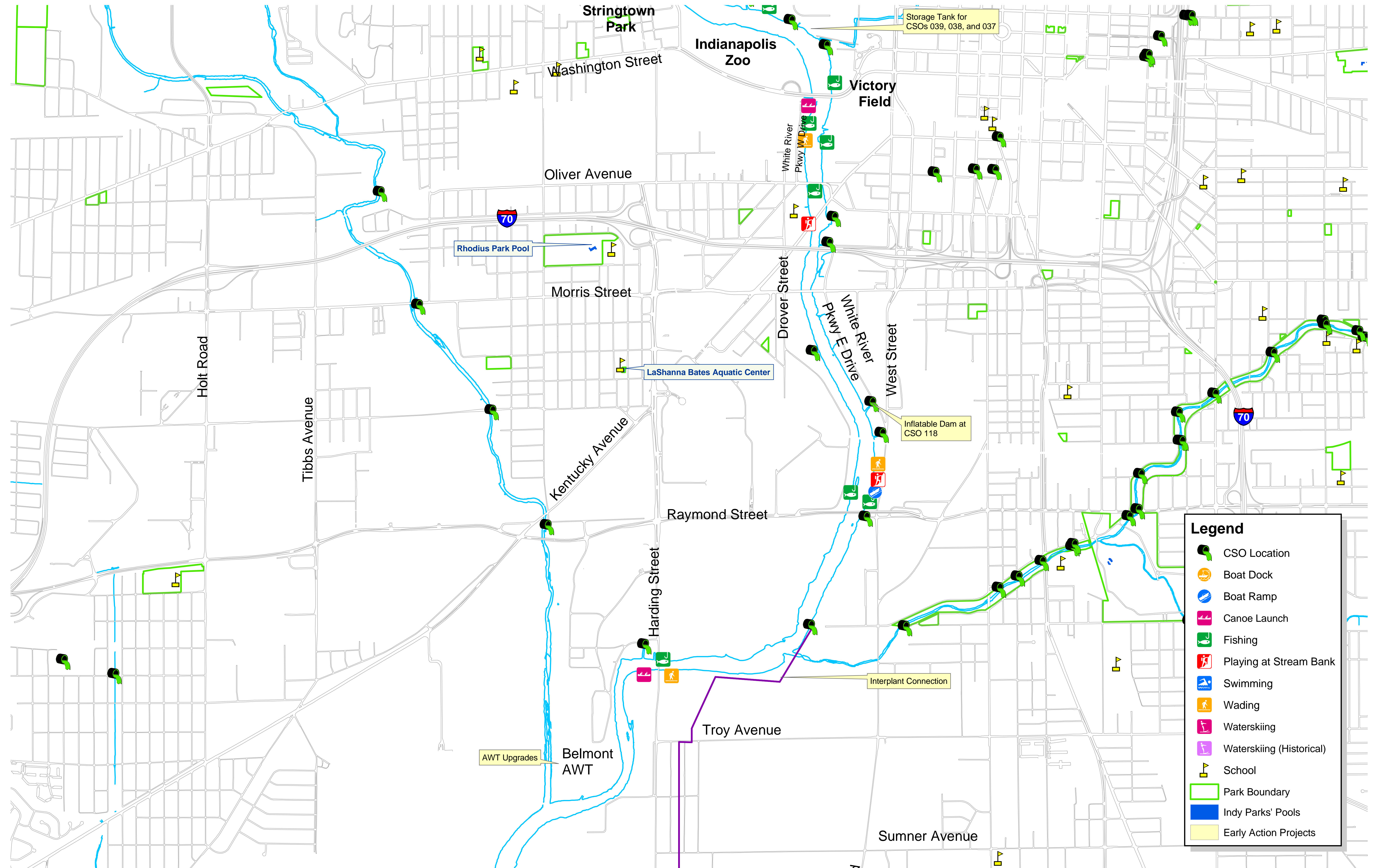
White River
Reported and Observed Uses
Sheet 1 of 4

Figure 2-100a



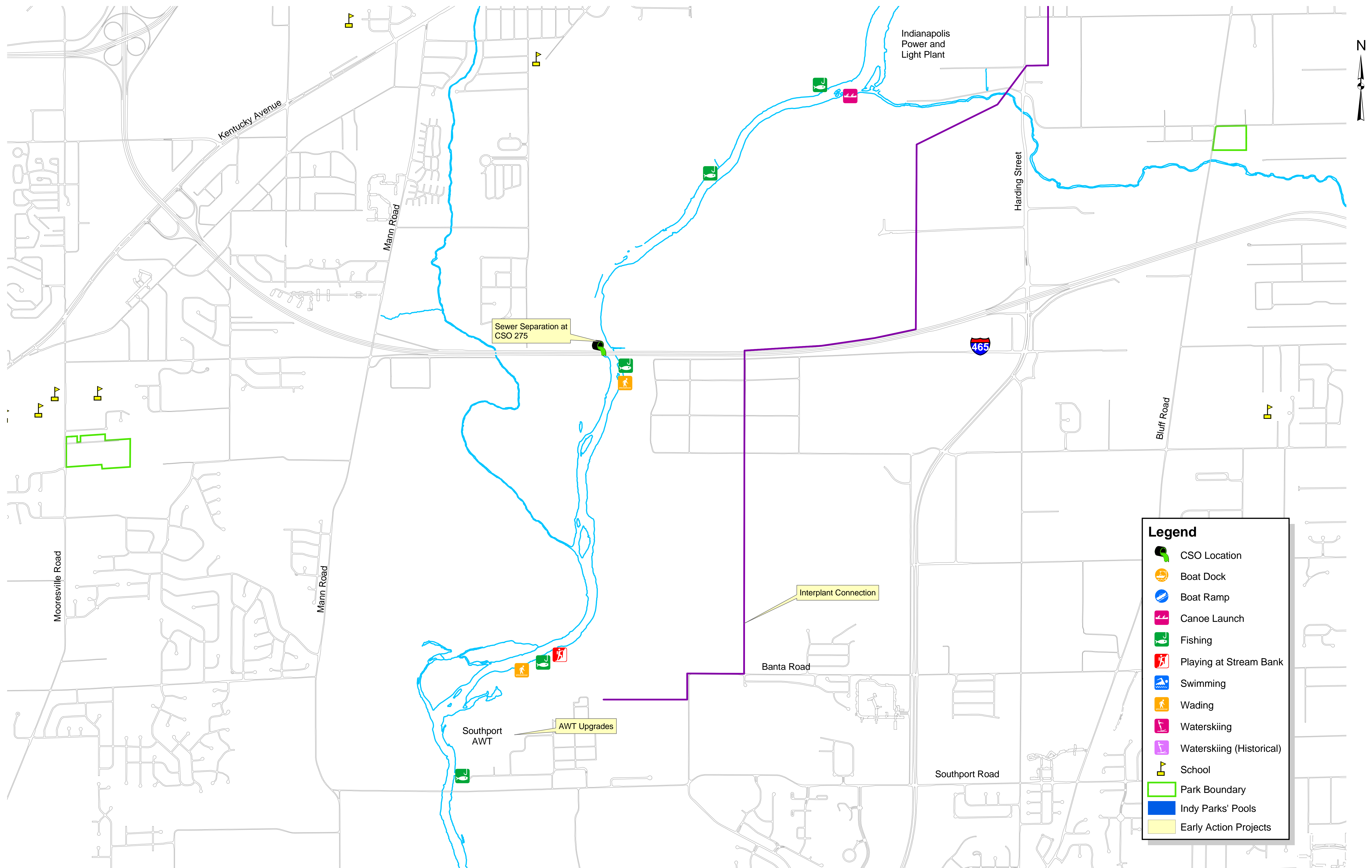
Legend

- CSO Location
- Boat Dock
- Boat Ramp
- Canoe Launch
- Fishing
- Playing at Stream Bank
- Swimming
- Wading
- Waterskiing
- Waterskiing (Historical)
- School
- Park Boundary
- Indy Parks' Pool
- Early Action Projects



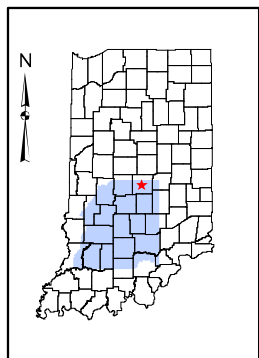
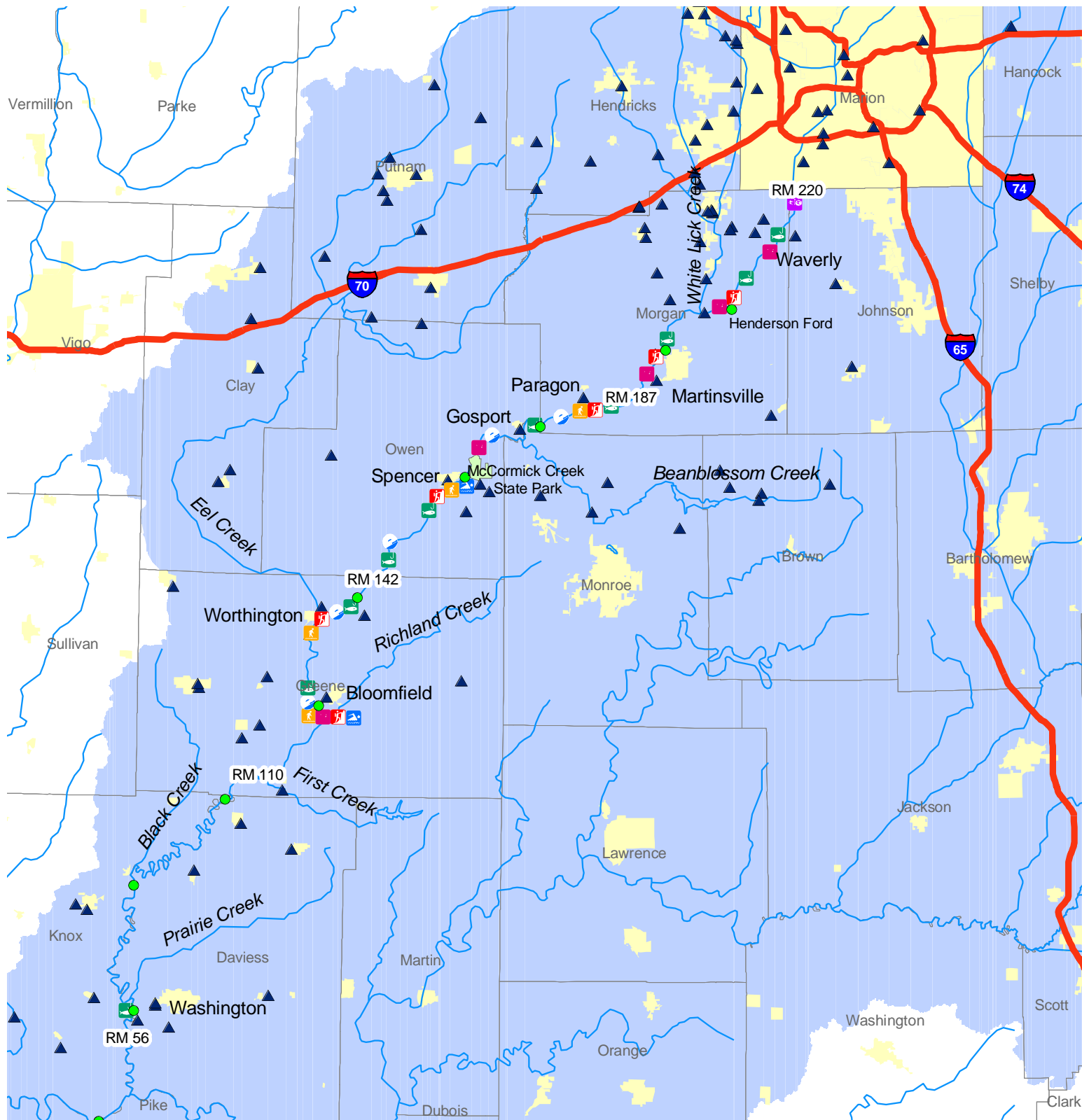
Legend

- CSO Location
- Boat Dock
- Boat Ramp
- Canoe Launch
- Fishing
- Playing at Stream Bank
- Swimming
- Wading
- Waterskiing
- Waterskiing (Historical)
- School
- Park Boundary
- Indy Parks' Pools
- Early Action Projects



Legend

- CSO Location
- Boat Dock
- Boat Ramp
- Canoe Launch
- Fishing
- Playing at Stream Bank
- Swimming
- Wading
- Waterskiing
- Waterskiing (Historical)
- School
- Park Boundary
- Indy Parks' Pools
- Early Action Projects



Legend

- | | | | |
|-------------------|------------------------|---------------------|-----------------------|
| Duck Hunting | Playing at Stream Bank | Public Access Point | Populated Areas |
| Fishing | Wading | Interstate | County Border |
| Boating | Swimming | Major Streams | White River Watershed |
| Canoeing-Kayaking | NPDES Permit Facility | | RM = River Mile |

Figure 2-101
White River Downstream of Marion County
Reported and Observed Uses